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Exercise 1:

Pulling an image

```
Microsoft Windows [Version 10.0.19042.1052]
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C:\Users\Oyo Magpayo>docker images
REPOSITORY    TAG        IMAGE ID    CREATED    SIZE

C:\Users\Oyo Magpayo>docker search <keyword>
The syntax of the command is incorrect.

C:\Users\Oyo Magpayo>docker pull ubuntu:16.04
16.04: Pulling from library/ubuntu
61e03ba1d414: Pull complete
4afb39f216bd: Pull complete
e489abdc9f90: Pull complete
999fff7bcc24: Pull complete
Digest: sha256:6aab78d1825b4c15c159fecc62b8eef4fdf0c693a15aace3a605ad44e5e2df0c
Status: Downloaded newer image for ubuntu:16.04
docker.io/library/ubuntu:16.04

C:\Users\Oyo Magpayo>docker pull ubuntu:16.10
16.10: Pulling from library/ubuntu
dca7be20e546: Pull complete
40bca54f5968: Pull complete
61464f23390e: Pull complete
d99f0bcd5dc8: Pull complete
120db6f90955: Pull complete
Digest: sha256:8dc9652808dc091400d7d5983949043a9f9c7132b15c14814275d25f94bca18a
Status: Downloaded newer image for ubuntu:16.10
docker.io/library/ubuntu:16.10

C:\Users\Oyo Magpayo>docker rmi 31
Error: No such image: 31

C:\Users\Oyo Magpayo>docker rmi ubuntu16:10
Error: No such image: ubuntu16:10

C:\Users\Oyo Magpayo>docker images
REPOSITORY    TAG        IMAGE ID       CREATED       SIZE
ubuntu        16.04      065cf14a189c   4 days ago    135MB
ubuntu        16.10      7d3f705d307c   3 years ago   107MB

C:\Users\Oyo Magpayo>docker rmi ubuntu:16.10
Untagged: ubuntu:16.10
Untagged: ubuntu@sha256:8dc9652808dc091400d7d5983949043a9f9c7132b15c14814275d25f94bca18a
Deleted: sha256:7d3f705d307c7c225398e04d4c4f8512f64eb8a65959a1fb4514dfde18a047e7
Deleted: sha256:d9db289b9342d9617596cd6ee3bba988629e24d9afa5db4e4b0e4e491c65007d
Deleted: sha256:a87725e8597b97f2399bc3aa50b0e2eec903b8ce19055668d3befb012918205c
Deleted: sha256:38cf10a2801529348366953e9b933d3524360dedc91d3e4d5d7f941da0c973c9
Deleted: sha256:61172966249d43026dbd017eec3a9575e37bddf8a269a9f09ecb559d7bfe7fef
Deleted: sha256:57145c01eb80040fdd0a24cde20af4788605b49593188d4f7efab099af89a08e

C:\Users\Oyo Magpayo>docker images
REPOSITORY    TAG        IMAGE ID       CREATED       SIZE
ubuntu        16.04      065cf14a189c   4 days ago    135MB
```

Running our container

```
C:\Users\Oyo Magpayo>docker run ubuntu:16.04 /bin/echo 'Hello world!'
'Hello world!'

C:\Users\Oyo Magpayo>docker ps
CONTAINER ID   IMAGE     COMMAND     CREATED     STATUS     PORTS      NAMES

C:\Users\Oyo Magpayo>docker ps -a
CONTAINER ID   IMAGE          COMMAND               CREATED          STATUS                     PORTS        NAMES
142d5fa56e93   ubuntu:16.04   "/bin/echo 'Hello wo…"  47 seconds ago   Exited (0) 46 seconds ago               inspiring_payne

C:\Users\Oyo Magpayo>docker run ubuntu:16.04 /bin/bash

C:\Users\Oyo Magpayo>docker ps -a
CONTAINER ID   IMAGE          COMMAND               CREATED          STATUS                     PORTS        NAMES
6257a798ee73   ubuntu:16.04   "/bin/bash"            12 seconds ago   Exited (0) 11 seconds ago               xenodochial_lederberg
142d5fa56e93   ubuntu:16.04   "/bin/echo 'Hello wo…"  2 minutes ago    Exited (0) 2 minutes ago                inspiring_payne

C:\Users\Oyo Magpayo>docker run -it ubuntu:16.04 /bin/bash
root@69f93fdb6287:/# pwd
/
root@69f93fdb6287:/# ls
bin  boot  dev  etc  home  lib  lib64  media  mnt  opt  proc  root  run  sbin  srv  sys  tmp  usr  var
root@69f93fdb6287:/# exit
exit

C:\Users\Oyo Magpayo>docker run -d ubuntu:16.04 /bin/sleep 3600
5d213dedead74489fc931b526d201992a28fa31f85f48c76f8c796bf63bc7a3d

C:\Users\Oyo Magpayo>docker ps
CONTAINER ID   IMAGE          COMMAND               CREATED          STATUS          PORTS        NAMES
5d213dedead7   ubuntu:16.04   "/bin/sleep 3600"      13 seconds ago   Up 11 seconds                awesome_tesla

C:\Users\Oyo Magpayo>docker exec -it 69f /bin/bash
Error response from daemon: Container 69f93fdb62871f8371ab2083f3abbc60f60840da3e806855222c4746ba831fd2 is not running

C:\Users\Oyo Magpayo>docker exec -it 5d2 /bin/bash
root@5d213dedead7:/# ps aux
USER       PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
root         1  0.0  0.0   4372   648 ?        Ss   12:54   0:00 /bin/sleep 3600
root         7  0.2  0.0  18236  3292 pts/0    Ss   12:56   0:00 /bin/bash
root        17  0.0  0.0  34420  2852 pts/0    R+   12:56   0:00 ps aux
root@5d213dedead7:/# exit
exit

C:\Users\Oyo Magpayo>docker ps
CONTAINER ID   IMAGE          COMMAND               CREATED          STATUS          PORTS        NAMES
5d213dedead7   ubuntu:16.04   "/bin/sleep 3600"      2 minutes ago    Up 2 minutes                 awesome_tesla

C:\Users\Oyo Magpayo>docker stop 5d2
5d2

C:\Users\Oyo Magpayo>docker ps -a
CONTAINER ID   IMAGE          COMMAND               CREATED          STATUS                      PORTS        NAMES
5d213dedead7   ubuntu:16.04   "/bin/sleep 3600"      3 minutes ago    Exited (137) 10 seconds ago              awesome_tesla
69f93fdb6287   ubuntu:16.04   "/bin/bash"            4 minutes ago    Exited (0) 4 minutes ago                 flamboyant_hypatia
6257a798ee73   ubuntu:16.04   "/bin/bash"            5 minutes ago    Exited (0) 5 minutes ago                 xenodochial_lederberg
142d5fa56e93   ubuntu:16.04   "/bin/echo 'Hello wo…"  7 minutes ago    Exited (0) 7 minutes ago                 inspiring_payne
```

Removing Containers

```
C:\Users\Oyo Magpayo>docker rm 5d21
5d21

C:\Users\Oyo Magpayo>docker run --rm ubuntu:16.04 /bin/echo 'Hello and goodbye!'
'Hello and goodbye!'

C:\Users\Oyo Magpayo>docker ps -a
CONTAINER ID   IMAGE          COMMAND                CREATED          STATUS                    PORTS        NAMES
69f93fdb6287   ubuntu:16.04   "/bin/bash"            6 minutes ago    Exited (0) 6 minutes ago               flamboyant_hypatia
6257a798ee73   ubuntu:16.04   "/bin/bash"            7 minutes ago    Exited (0) 7 minutes ago               xenodochial_lederberg
142d5fa56e93   ubuntu:16.04   "/bin/echo 'Hello wo…" 9 minutes ago    Exited (0) 9 minutes ago               inspiring_payne

C:\Users\Oyo Magpayo>docker images
REPOSITORY     TAG      IMAGE ID       CREATED        SIZE
ubuntu         16.04    065cf14a189c   4 days ago     135MB

C:\Users\Oyo Magpayo>docker ps -a
CONTAINER ID   IMAGE          COMMAND                CREATED           STATUS                     PORTS        NAMES
69f93fdb6287   ubuntu:16.04   "/bin/bash"            9 minutes ago     Exited (0) 9 minutes ago                flamboyant_hypatia
6257a798ee73   ubuntu:16.04   "/bin/bash"            10 minutes ago    Exited (0) 10 minutes ago               xenodochial_lederberg
142d5fa56e93   ubuntu:16.04   "/bin/echo 'Hello wo…" 12 minutes ago    Exited (0) 12 minutes ago               inspiring_payne

C:\Users\Oyo Magpayo>rm 69f
'rm' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\Oyo Magpayo>docker rm 69f
69f

C:\Users\Oyo Magpayo>docker ps -a
CONTAINER ID   IMAGE          COMMAND                CREATED           STATUS                     PORTS        NAMES
6257a798ee73   ubuntu:16.04   "/bin/bash"            12 minutes ago    Exited (0) 12 minutes ago               xenodochial_lederberg
142d5fa56e93   ubuntu:16.04   "/bin/echo 'Hello wo…" 14 minutes ago    Exited (0) 14 minutes ago               inspiring_payne

C:\Users\Oyo Magpayo>dcoker rm 6257
'dcoker' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\Oyo Magpayo>docker rm 6257
6257

C:\Users\Oyo Magpayo>docker rm 142d
142d

C:\Users\Oyo Magpayo>docker ps -a
CONTAINER ID   IMAGE          COMMAND     CREATED     STATUS     PORTS       NAMES
```